Asgn3 Writeup

Testing
To test my server, I used the provided functional tests, the student repo tests, and my own simple bash script to test several different scenarios.

- Performance attributes from the machine running the server are not used in this assignment because all the servers are running on the same machine. If we had implemented it this way, we would have to have several machines to test it on. However if we did want to implement it this way, because of modularity, we would simply need to change how the choose_server function was implemented.
- If we were allowed to do some processing of the client request, we could implement a cache system to store responses for GET requests to frequently accessed files. This could have significant speedups if there are many GET requests to a large file, as the loadbalancer could simply send the file from its cache, rather than having to recv the data from a server. The cost of this would be increased complexity because we would have to check if the file has been modified, and implement a safe caching system.
- I was not able to perform these tests because my virtual machine does not have enough memory.